

**Amendments to the Claim:**

This listing of the claims will replace all prior versions and listings of claims in the application:

**Listing of Claims:**

1. **(Currently Amended):** An isolated nucleic acid sequence encoding a polypeptide of SEQ ID NO:1 or a polypeptide having at least 90% sequence similarity to SEQ ID NO:1 and having hydroperoxide lyase (HL) activity.

**Claim 2 (canceled).**

3. **(Previously Presented).** The isolated nucleic acid of claim 1 wherein the nucleic acid has the sequence of SEQ ID NO: 2.

**Claim 4 (canceled).**

5. **(Currently Amended):** A vector comprising a nucleic acid sequence encoding a polypeptide of SEQ ID NO: 1 or a polypeptide having at least [[about]] 90% sequence similarity to SEQ ID NO:1 and having HL activity.

6. **(Currently Amended):** A host cell transformed with a vector comprising a nucleic acid sequence encoding a polypeptide of SEQ ID NO: 1 or a polypeptide having at least 90% sequence similarity to SEQ ID NO:1 and having HL activity.

7. **(Original):** The host cell of claim 6 wherein the host cell is *E. coli*.

**Claims 8-13 (canceled).**